CLAIMS

What is claimed is:

1   1.   A method for dynamically sending device data in a bus

2 transaction comprising the steps of:

3   a first device generating a request comprising a plurality of fields

4 including a device configurable field comprising device configurable data;

5   said first device issuing the request to a second device;

6   said second device generating a reply comprising a plurality of fields;

7   said second device copying the data received in the device

8 configurable field into a designated field of the plurality of fields of the reply;

9   said second device issuing the reply to the first device.

1   2.   The method as set forth in claim 1, wherein the designated

2 field is located at a location in the reply that corresponds to a field location of

3 the device configurable field of the request.

1   3.   The method as set forth in claim 1, wherein the device

2 configurable field is used by the first device to store a transaction

3 identification of a transaction issued by the first device.

1   4.   The method as set forth in claim 3, further comprising the step

2 of the first device reading the designated field to determine the

3 identification of the request the reply corresponds to.

1   5.   A bus system comprising:

2   a bus

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3   a first device coupled to the bus, said first device configured to issue a

4   request comprising a device configurable field comprising device

5   configurable data;

6   a second device coupled to the bus and configured to receive the

7   request and copy the device configurable data into a designated field of a

8   reply and issue the reply to the first device.

1   6.   The bus system as set forth in claim 5, wherein the designated

2   field is located at a location in the reply that corresponds to a field location of

3   the device configurable field of the request.

1   7.   The bus system as set forth in claim 5, wherein the device

2   configurable field is used by the first device to store a transaction

3   identification of a transaction issued by the first device.

1   8.   The bus system as set forth in claim 7, further comprising the

2   step of the first device reading the designated field to determine the

3   identification of the request the reply corresponds to.

1   9.   A bus comprising a plurality of bus lines configured to convey

2   device configurable data from a first device to a second device during

3   transmission of a request and further configured to convey the device

4   configurable data from the second device to the first device during

5   transmission of a reply to the request.

1   10.   The bus as set forth in claim 9, wherein the device configurable

2   data comprises a transaction identification.